



February 24, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Burough C #23-30D

Project Number - [none]

Attached are your analytical results for Noble - Burough C #23-30D received by Origins Laboratory, Inc. February 16, 2023. This project is associated with Origins project number Y302342-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Borough C #23-30D

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y302342-01	Soil	February 16, 2023 10:18	02/16/2023 16:36

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Burrough C #23-30D

www.originslaboratory.com

page 1 of 1

2132342

ORIGINS LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Avenue  
Wheat Ridge, CO 80033  
Telephone Number: 303-133-0479  
Email Address: MCE@eagle-enviro.com

Project Manager: Martin Eckert III  
Project Name: Burrough C #23-30D  
Project Number:  
Samples Collected By: KM/CH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
WH-FS-01 @ 6'	2/16/23	10:18	2	X				X			COTEX, naph. TMB, - 10150 ORC/KRO - 10150 PAH, - 821000 EC, SAR, pH, 90450 EC, SAR, pH, 90450 BOD, 90450	MDS needed EC, SAR, pH, pore plug 2
Relinquished By: <i>Charles Mathis</i>	Date: 2/16/23	Time: 1456						Received By: <i>CE</i>	Date: 02/16/23	Time: 1636	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard	
Relinquished By:	Date:	Time:						Received By:	Date:	Time:		

Temp Received: 19° Date Results Needed: \*Noble

\*Bill to Cole

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Burough C #23-30D

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: Y302342

Client: Eagle

Client Project ID: Burrough C #23-30D

Checklist Completed by: JG/DE

Shipped Via: HS

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/17/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 1.9 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/17/23

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Borough C #23-30D

WH-FS-01@6'

2/16/2023 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302342-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.295	0.100	mg/L	1	B3B2005	02/20/2023	02/21/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B1704	02/17/2023	02/17/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.0 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1725	02/17/2023	02/19/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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2/16/2023 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302342-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	97.6 %		70-130			B3B17 25	02/17/2023	02/19/2023	
Surrogate: Toluene-d8	95.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	2.48		0.499	meq/L	10	[CALC]	02/20/2023	02/21/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.21		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L665476	02/21/2023	02/22/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.00438	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00318	0.00247	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0123	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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WH-FS-01@6'

2/16/2023 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y302342-01 (Soil)

## PAH by 8270D SIM

Fluorene	0.00974	0.00143	0.00335	mg/Kg	5	L665476	02/21/2023	02/22/2023
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"
Pyrene	0.00597	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.13	pH Units	1	B3B2008	02/20/2023	02/21/2023
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## SAR by 20B Saturated Paste

SAR	3.28	SAR	1	B3B2004	02/20/2023	02/21/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.844	0.00500	mmhos/cm	1	B3B2008	02/20/2023	02/21/2023
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Project Number: [none]  
Project: Noble - Borough C #23-30D

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B1704 - EPA 3580										
Blank (B3B1704-BLK1)					Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B1704 - EPA 3580

LCS (B3B1704-BS1)

Prepared: 02/17/2023 Analyzed: 02/17/2023

Diesel (C10-C28)	993	50.0	mg/kg	1000		99.3	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.6	50-150			

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Project: Noble - Borough C #23-30D

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B1704 - EPA 3580

Matrix Spike (B3B1704-MS1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	44		"	49.8		89.1	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B1704 - EPA 3580										
Matrix Spike Dup (B3B1704-MSD1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	0.517	35	
Residual Range Organics (C28-C40)	988	200	"	1000	ND	98.8	70-130	1.35	35	
Surrogate: o-Terphenyl	46		"	49.8		92.4	50-150			

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## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B1725 - EPA 5030 (soil)										
Blank (B3B1725-BLK1)					Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.4	70-130			

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Project Number: [none]  
Project: Noble - Borough C #23-30D

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B1725 - EPA 5030 (soil)</b>										
<b>LCS (B3B1725-BS1)</b>					Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0978	0.00380	"	0.100		97.8	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0974	0.00200	"	0.100		97.4	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		83.1	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3B1725 - EPA 5030 (soil)**

Matrix Spike (B3B1725-MS1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100	ND	97.9	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Naphthalene	0.0741	0.00380	"	0.100	ND	74.1	70-130			
Toluene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.4	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B1725 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3B1725-MSD1)</b>		<b>Source: Y302328-01</b>			Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100	ND	94.2	70-130	3.79	20	
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	5.64	20	
Benzene	0.0970	0.00200	"	0.100	ND	97.0	70-130	1.08	20	
Ethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	3.80	20	
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130	8.97	20	
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130	2.39	20	
o-Xylene	0.0947	0.00200	"	0.100	ND	94.7	70-130	3.04	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.0	70-130	3.80	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.4	70-130			

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Project Number: [none]  
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## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3B2004 - Saturated Paste Metals

##### Blank (B3B2004-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

##### Duplicate (B3B2004-DUP1)

Source: Y302341-02

Prepared: 02/20/2023 Analyzed: 02/21/2023

Calcium PPM	478	10.0	mg/L		486			1.57	50	
SAR	0.00		SAR		15.0			200	200	U
Magnesium PPM	258	10.0	mg/L		247			4.30	50	
Sodium PPM	1730	10.0	"		1630			5.87	50	

#### Batch B3B2005 - DTPA Sorbitol Preparation

##### Blank (B3B2005-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	ND	0.100	mg/L							U
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##### Duplicate (B3B2005-DUP1)

Source: Y302338-01

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	0.0678	0.0983	mg/L		0.0654			3.64	50	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Borough C #23-30D

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2008 - Saturated Paste pH/EC</b>										
<b>Blank (B3B2008-BLK1)</b>					Prepared: 02/20/2023 Analyzed: 02/21/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B3B2008-DUP1)</b>					Source: Y302341-02 Prepared: 02/20/2023 Analyzed: 02/21/2023					
Specific Conductance (EC)	9.49	0.00500	mmhos/cm		8.47			11.4	25	
pH	7.94		pH Units		7.94			0.00	25	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Burrough C #23-30D

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L665476 - 3550B**

**LCSD (LCSD-L665476)**

Prepared: 02/21/2023 Analyzed: 02/22/2023

Benzo(b)fluoranthene	0.15	0.00067	mg/Kg	0.167		89.8	30-130	15	30	
Benzo(k)fluoranthene	0.109	0.00067	"	0.167		65.2	30-130	13.8	30	
Naphthalene	0.117	0.00201	"	0.167		70	30-130	14.6	30	
Indeno(1,2,3-cd)pyrene	0.157	0.00067	"	0.167		94	30-130	15	30	
Fluorene	0.131	0.00067	"	0.167		78.4	30-130	11.2	30	
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130	11.3	30	
Dibenz(a,h)anthracene	0.171	0.00067	"	0.167		102	30-130	16.4	30	
Pyrene	0.113	0.00067	"	0.167		67.6	30-130	10.2	30	
Benzo(a)pyrene	0.142	0.00067	"	0.167		85	30-130	14.3	30	
Benzo(a)anthracene	0.154	0.00067	"	0.167		92.2	30-130	16.1	30	
Anthracene	0.139	0.00067	"	0.167		83.2	30-130	15.5	30	
Acenaphthene	0.127	0.00067	"	0.167		76	30-130	10.7	30	
2-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130	13.2	30	
Chrysene	0.131	0.00067	"	0.167		78.4	30-130	14.7	30	
1-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130	12	30	
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			
Surrogate: 4-Terphenyl-d14	63.3		"	0.333		63.3	33-122			

**LCS (LCS-L665476)**

Prepared: 02/21/2023 Analyzed: 02/22/2023

Dibenz(a,h)anthracene	0.145	0.00067	mg/Kg	0.167		86.8	30-130			
Pyrene	0.102	0.00067	"	0.167		61	30-130			
Fluoranthene	0.108	0.00067	"	0.167		64.6	30-130			
Fluorene	0.117	0.00067	"	0.167		70	30-130			
Indeno(1,2,3-cd)pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Acenaphthene	0.114	0.00067	"	0.167		68.2	30-130			
Chrysene	0.113	0.00067	"	0.167		67.6	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Burough C #23-30D

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L665476 - 3550B**

**LCS (LCS-L665476)**

Prepared: 02/21/2023 Analyzed: 02/22/2023

Naphthalene	0.101	0.00201	mg/Kg	0.167		60.4	30-130			
Benzo(b)fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Benzo(a)pyrene	0.123	0.00067	"	0.167		73.6	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Benzo(k)fluoranthene	0.0949	0.00067	"	0.167		56.8	30-130			
Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

**LRB (LRB-L665476)**

Prepared: 02/21/2023 Analyzed: 02/22/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Borough C #23-30D

PAH by 8270D SIM - Quality Control  
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665476 - 3550B

LRB (LRB-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Anthracene	ND	0.00067	mg/Kg				-			
Surrogate: Nitrobenzene-d5	65.1		"	0.333	65.1		29-110			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	69.6		33-122			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333	61.2		33-115			

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Project Number: [none]  
Project: Noble - Burough C #23-30D

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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